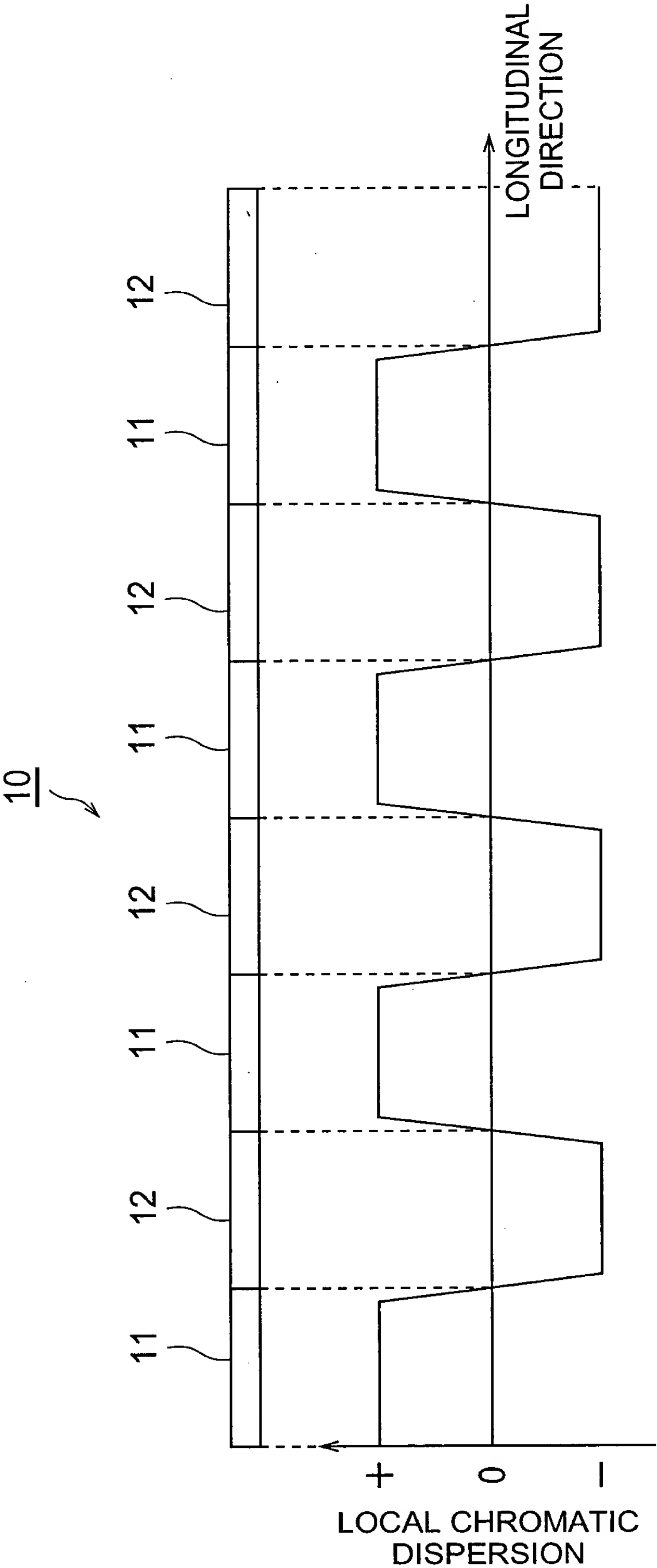


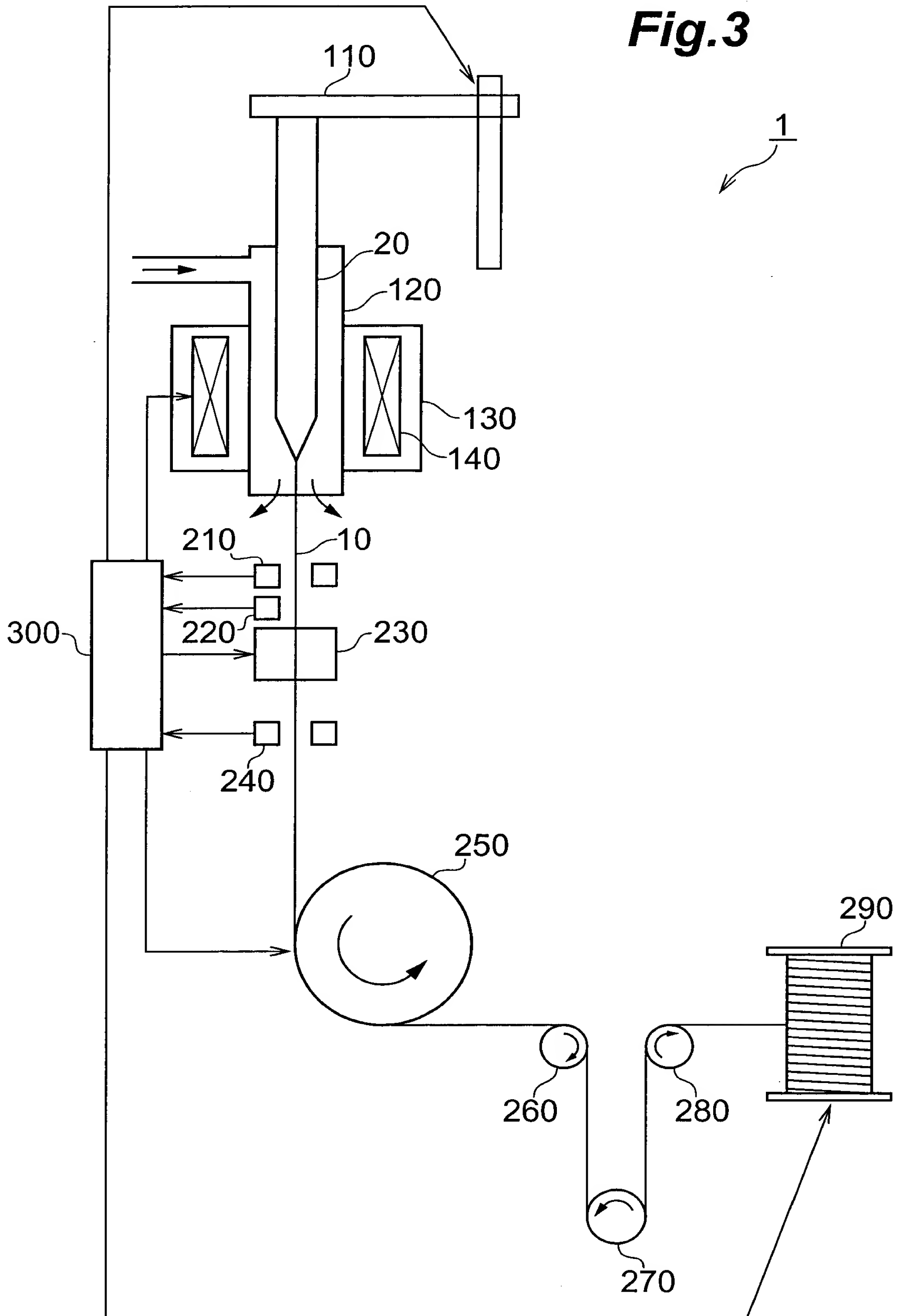
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Fig.1



The diagram illustrates a dielectric resonator antenna (DRA) structure. It consists of a central dielectric resonator with a semi-circular top, characterized by a permittivity n_1 and a height Δ_1 . This resonator is flanked by two rectangular dielectric regions with permittivity n_2 and a width of $2a$. The entire structure is supported by a substrate with permittivity n_3 and a thickness Δ_2 . The total width of the base is $2b$. The diagram is used to define the geometry and material properties for the subsequent analysis of the antenna's radiation characteristics.

Fig.3



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Fig.4

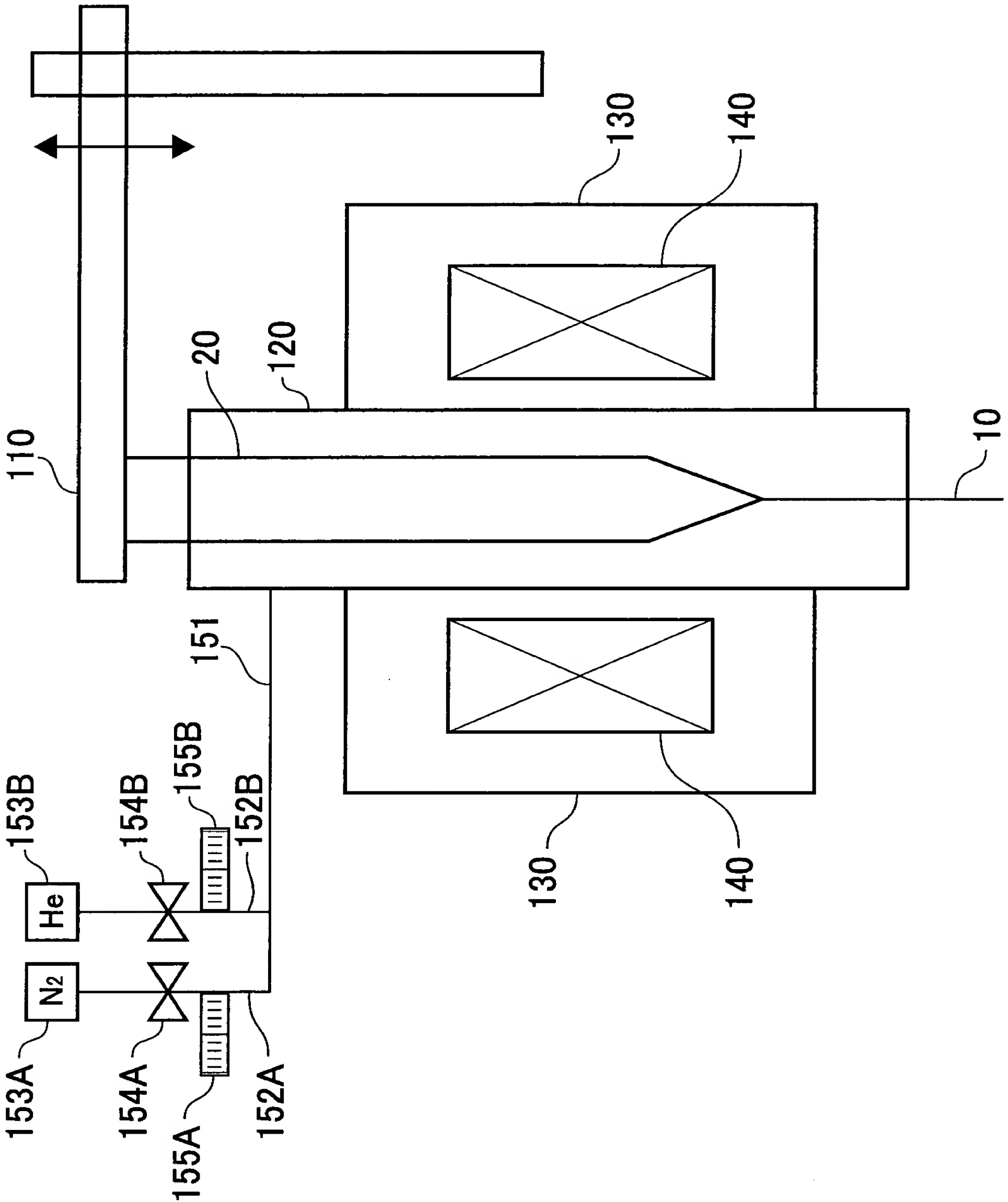


Fig.5

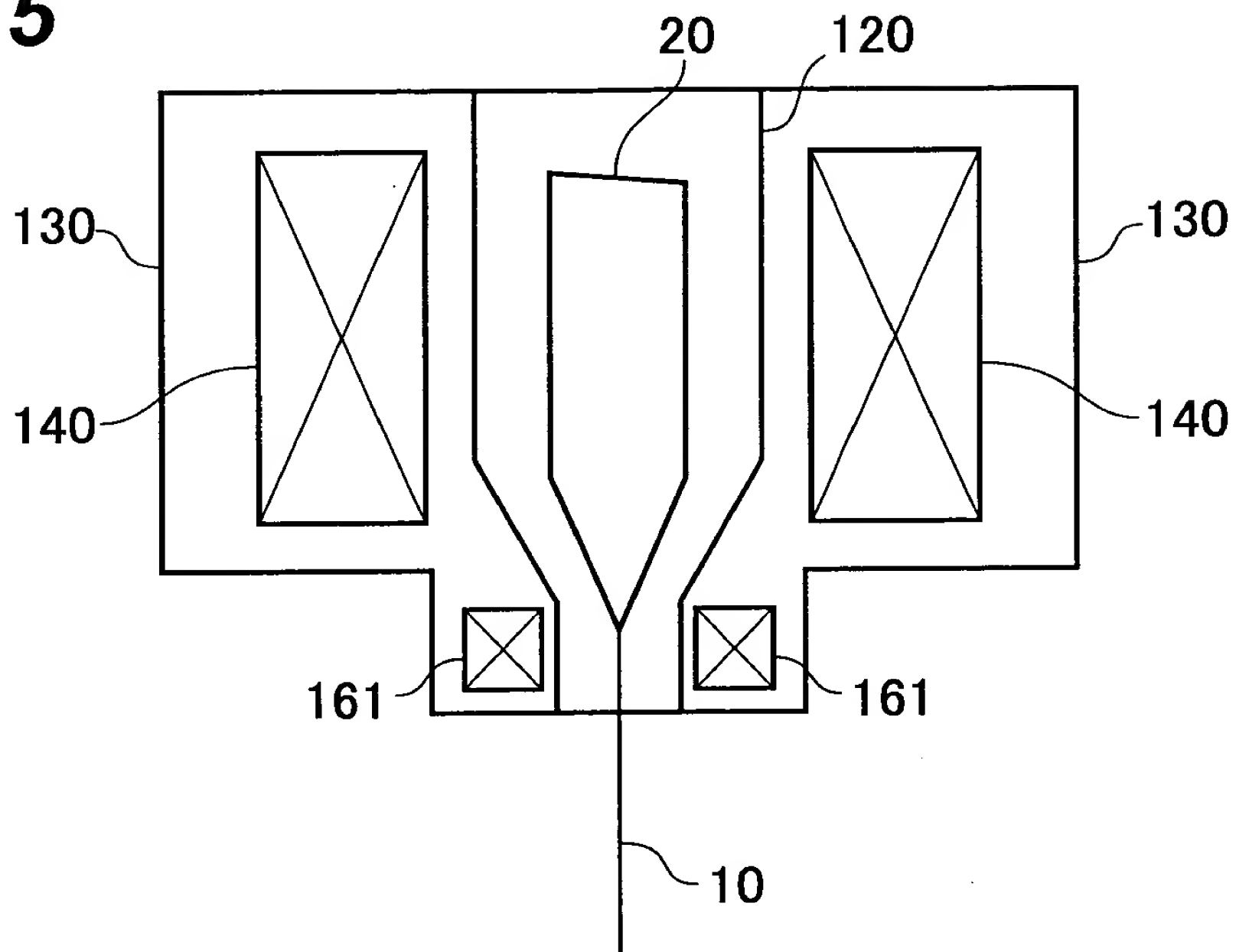
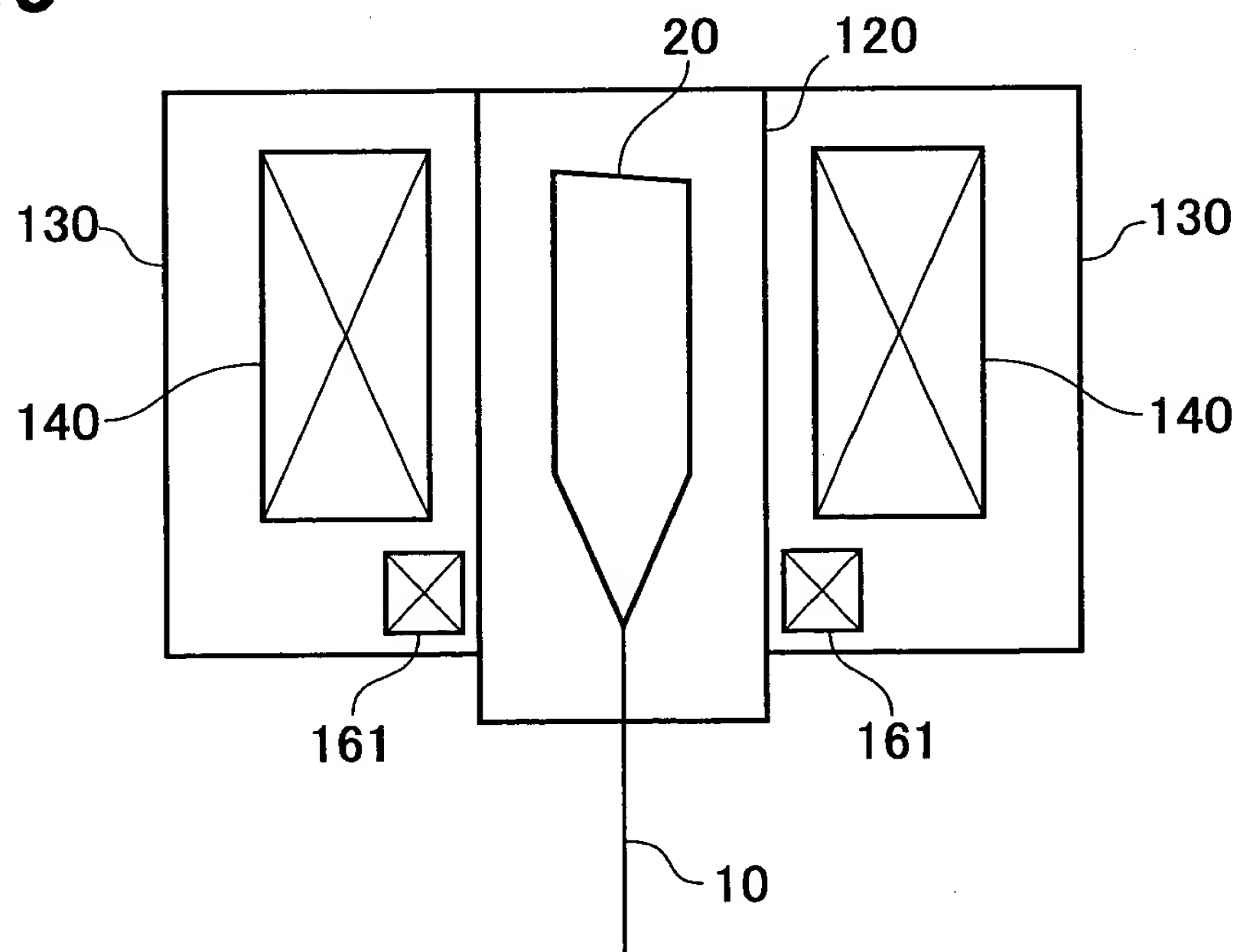


Fig.6



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Fig.7

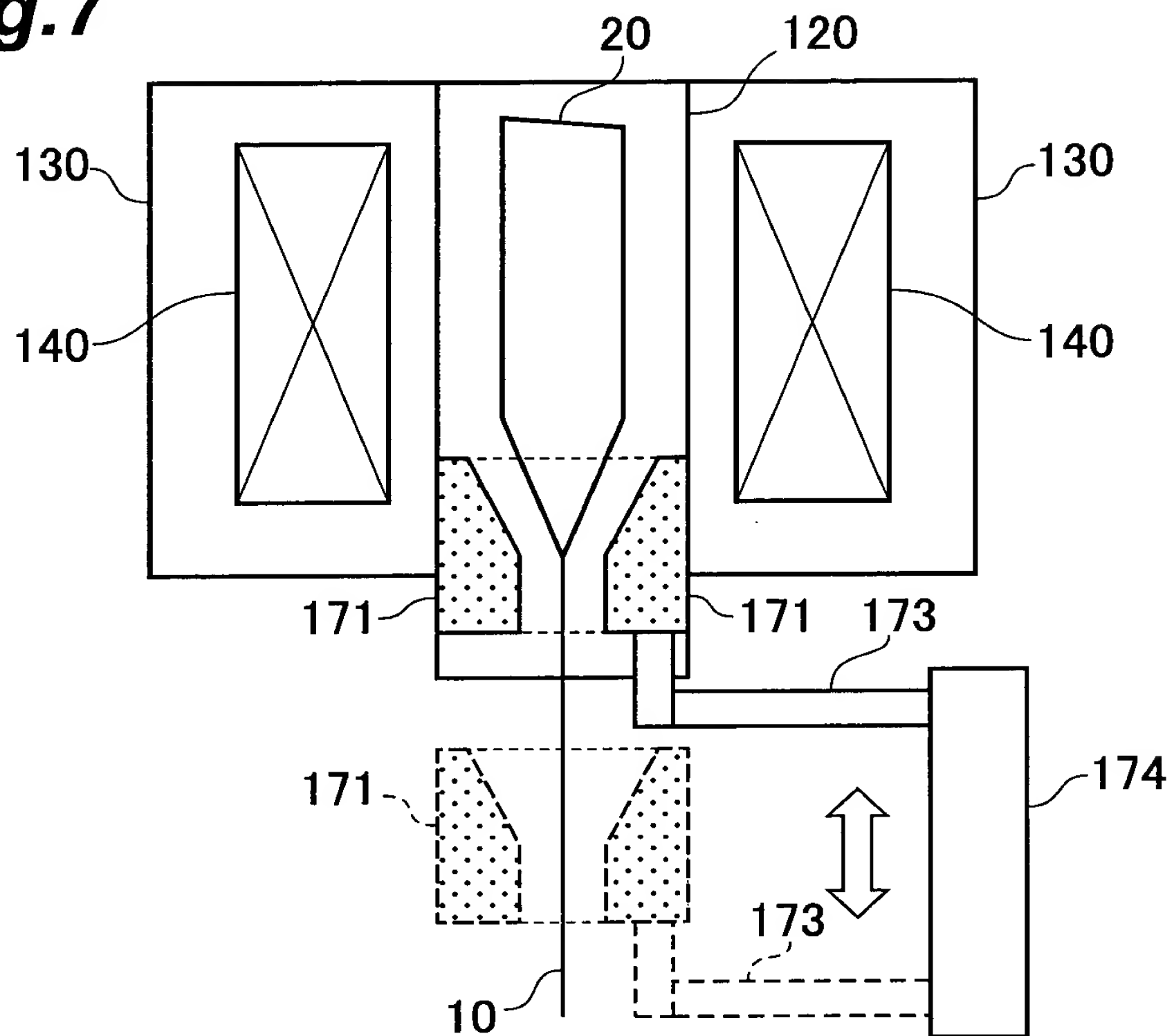


Fig.8

